

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-7. (canceled)

8. (new) A diesel particulate filter comprising a plugged, wall-flow honeycomb filter body composed of a plurality of parallel first or inlet cell channels and second or outlet cell channels, the first cell channels having a larger hydraulic diameter than the second cell channels, the first cell channels having adjoining corners and being bordered on their sides by the second cell channels, with the first and second cell channels having a square cross-section.

9. (new) The diesel particulate filter of claim 8 wherein the honeycomb filter body is composed of a ceramic material.

10. (new) The diesel particulate filter of claim 9 wherein the ceramic material is cordierite.

11. (new) The diesel particulate filter of claim 9 wherein the ceramic material is silicon carbide.

12. (new) The diesel particulate filter of claim 8 wherein the first cell channels have a hydraulic diameter 1.1-2 times greater than the second cell channels.

13. (new) The diesel particulate filter of claim 8 wherein the first cell channels have a hydraulic diameter 1.3-1.6 times greater than the second cell channels.